

Title (en)

Combination process for hydrogenation and isomerization of benzene and paraffin-containing feedstocks

Title (de)

Kombinationsverfahren zur Hydrierung und Isomerisierung von Benzol und Paraffinen enthaltenden Einsätzen

Title (fr)

Procédé combiné d'hydrogénation et d'isomérisation en charges contenant du benzène et des paraffines

Publication

**EP 0504510 B1 19971119 (EN)**

Application

**EP 91302425 A 19910320**

Priority

US 45940289 A 19891229

Abstract (en)

[origin: US5003118A] The benzene content in a gasoline pool is reduced by a process that hydrogenates a benzene-containing isomerization zone feedstream. In addition to reducing the benzene concentration, the hydrogenation zone is also used to heat the isomerization zone feed and thereby eliminate the need for an isomerization zone heater. The process employs mild saturation conditions which eliminates hydrocracking and prevents the loss of isoparaffin yield. Additional cyclic hydrocarbons produced by the saturation of benzene can be processed in the isomerization zone for ring opening to increase the available paraffinic feedstock or the isomerization zone can be operated to pass the cyclic hydrocarbons through to a product recovery section.

IPC 1-7

**C10G 65/08**

IPC 8 full level

**C07C 5/27** (2006.01); **C07C 9/00** (2006.01); **C10G 65/08** (2006.01)

CPC (source: EP US)

**C10G 65/08** (2013.01 - EP US)

Cited by

EP0953626A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

**US 5003118 A 19910326**; CA 2038824 A1 19920922; CA 2038824 C 20011218; DE 69128241 D1 19980102; DE 69128241 T2 19980312; EP 0504510 A1 19920923; EP 0504510 B1 19971119; ES 2109255 T3 19980116

DOCDB simple family (application)

**US 45940289 A 19891229**; CA 2038824 A 19910321; DE 69128241 T 19910320; EP 91302425 A 19910320; ES 91302425 T 19910320